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Date:

BRUHATH BANGALORE MAHANAGARA PALIKE

DEVELOPMENT OF BURIAL GROUND AT WARD NO. 172_13 MALLASANDRA, 'C' CATEGORY

ABSTRACT OF ESTIMATE

SI .N	DESCRIPTION OF WORK	Amount in Rs.
1	Civil Works	6441000.00
2	Electrical Works	700000.00
3	Plumbing work	700000.00
		7841000.00
4	DPR & PMC @ 3%	235230.00
5	KRIDL Charges @ 11%	862510.00
	TOTAL	**8938740.00**
6	Miscelleneous	11260.00
	GRAND TOTAL	**8950000.00**

(RUPEES EIGHTY NINE LAKHS FIFTY THOUSAND ONLY)

for NANDISH ASSOCIATES

(K C NANDISH)

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯೋಜನಾ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬಿಬಿಎಂಪಿ.

ನಂ: EE/PD/AS/Pz-18-19. ದಿನಾಂಕ: 03/08/2018
ರೂ: Rs. 89.50(lakhs
(Rs. Eighty nine lakhs, fifty Thousand only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯೋಜನಾ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬಿಬಿಎಂಪಿ.

ನಂ: CE/DZ/TS/2018-19 ದಿನಾಂಕ : 13/08/18
ರೂ. 89.50 lakhs only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

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BRUHAT BANGALORE MAHANAGARA PAILKE

DEVELOPMENT OF BURIAL GROUND AT WARD NO. 172_13 MALLASANDRA, 'C' CATEGORY

SECURITY CABIN

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
1	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **ordinary soil** not exceeding 1.5m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.								
	S.R Page no 5, item no 2.3								
	Long wall	2	9.92	1.00	1.00	19.84			
	Short wall	4	2.46	1.00	1.00	9.84			
						29.68	Cumt	**204.12**	**6058.28**
	Basic Rate:	189.00							
	Area Weightage @ 8%	15.12							
	Total	204.12							
2	Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And lift upto 1.5m including cost of all labour (Inside platrform , sides and sides of the area)								
	S.R.page 6 Item 2.10								
	50% on qty vide S.No.1								
						14.84	Cumt	**137.16**	**2035.45**
	Basic Rate:	127.00							
	Area Weightage @ 8%	10.16							
	Total	137.16							
3	Providing and laying in position plain cement concrete of mix **1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregate @ 0.892cum and fine aggregates @ 0.465cum machine mixed, machinemixed, concrete laid in layers not exceeding 15 cms, thick well compacted in foundation and plinth, cost of all materials, labour HOM of machinery, curing complete as per specifications.								
	S.R Page no 12, item no 4.2								
	For Foundation								
	Long wall	2	9.92	1.00	0.10	1.98			
	Short wall	4	2.46	1.00	0.10	0.98			
	For Flooring								
	Bed Room	1	3.35	3.00	0.10	1.01			
	Hall	1	4.11	3.00	0.10	1.23			
	Kitchen & Toilet	1	3.30	3.00	0.10	0.99			
						6.20	Cumt	**5449.68**	**33766.22**
	Basic Rate:	5046.00							
	Area Weightage @ 8%	403.68							
	Total	5449.68							
4	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.								
	SR Page 23 iteam 5.9								
a	**SSM**								
	first course	2	9.92	0.90	0.30	5.36			
		4	2.56	0.90	0.30	2.76			
	second course	2	9.92	0.60	0.45	5.36			

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	third course	4	2.86	0.60	0.45	3.09			
		2	9.92	0.45	0.45	4.02			
		4	3.01	0.45	0.45	2.44			
						23.02	cumt	**5405.40**	**124447.98**
	Basic Rate:	5005.00							
	Area Weightage @ 8%	400.40							
	Total	5405.40							
5	Providing and constructing non-load bearing wall with solid concrete blocks of size **400x100x200mm** having a block density not less than 1800kg/m3 having a minimumm average compressive strength of 4.00 N/mm2 confirming to I.S : 2185(Part 1):2005 and constructed withCM 1:4 as per 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc complete as per specifications.								
	S.R Page no 25, item no 5.28								
	toilet								
		1	1.45		2.95	4.28			
		1	2.25		2.95	6.64			
	kitchen	1	0.78		2.95	2.30			
						13.22	smt	**773.28**	**10219.67**
	Basic Rate:	716.00							
	Area Weightage @ 8%	57.28							
	Total	773.28							
6	Providing and constructing load bearing wall with concrete solid blocks having block ebsity not less than 1800 kg/m3 Having aq minimum average compressive strength of 5.00 N.mm2 confirming to IA 2185 (Part q) 2005 and constructed with CM 1:4 as [er IS 2572:2005 including cost of all materials labour charges, scaffolding. curing hire charges of machineries etc as per specifications. **Solid concrete blocks of Size 400x200x200 mm**								
	S.R Page no 25, item no 5.27.1								
a	Long wall	2	9.92		2.95	58.53			
b	Short wall	4	3.16		2.95	37.29			
						95.82			
	Deduction								
	main door	1	1.00		2.10	2.10			
	windows	4	1.50		1.00	6.00			
	ventilator	1	0.75		0.45	0.34			
	lintels	4	1.80		0.15	1.08			
	Doors	1	1.00		2.10	2.10			
						11.62			
c	**Terrace**								
	Long wall	2	9.92		0.90	17.86			
	Short wall	2	3.16		0.90	5.69			
						23.54			
						107.74	**sqmt**	**1011.96**	**109031.10**
	Basic Rate:	937.00							
	Area Weightage @ 8%	74.96							
	Total	1011.96							
7	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregares of ready mixed concrete for RCC works laid in 15 cms thick layers and well compated including vibrating, curing,etc., with all lead and lifts etc complete(excluisive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and **Roof** with M-25								
	S.R.page 18 item 4.49/4.49.2								
	RCC Roof Slab								
	Bed room	1	3.35	3.46	0.15	1.74			

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Hall	1	4.11	3.46	0.15	2.13			
	Kitchen & Toilet	1	3.50	3.46	0.15	1.82			
						5.69	cumt	**6550.20**	**37259.11**
	Basic Rate:	6065.00							
	Area Weightage @ 8%	485.20							
	Total	6550.20							
8	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								
	S.R.page 12 item 4.5								
	Plinth Bed								
	Long wall	2	9.92	0.45	0.15	1.34			
	Short wall	4	3.01	0.45	0.15	0.81			
						2.15	cumt	**5985.36**	**12879.90**
	Basic Rate:	5542.00							
	Area Weightage @ 8%	443.36							
	Total	5985.36							
9	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications (0-10 mts)								
	S.R.page 15 Item No. 4.29.2								
	RCC Roof Slab								
	Bed room	1	3.35	3.46		11.59			
	Hall	1	4.11	3.46		14.22			
	Kitchen & Toilet	1	3.50	3.46		12.11			
						37.92	Sqmt	**594.00**	**22525.43**
	Basic Rate:	550.00							
	Area Weightage @ 8%	44.00							
	Total	594.00							
10	Providing and removing Centering, shuttering, strutting, propping etc.,and removal of from work for vertical surface such as walls at any thickness including attched plasters, butresses, plinth cills and string courses cost of all materials, labour complete as per specification								
	SR Page 15 iteam 4.31								
	Plinth Bed								
	Long wall	4	9.92		0.45	17.86			
	Short wall	8	3.01		0.45	10.84			
						28.69	Sqmt	**316.44**	**9079.30**
	Basic Rate:	293.00							
	Area Weightage @ 8%	23.44							
	Total	316.44							
11	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, **lintles,** retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.								
	S.R Page no 13, item no 4.12								

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
a	**lintels**								
	Windows	4	2.10	0.20	0.20	0.34			
	Ventilators	1	1.50	0.20	0.20	0.06			
	Doors	2	1.60	0.20	0.20	0.13			
						0.52	cumt	**6876.36**	**3603.21**
	Basic Rate:	6367.00							
	Area Weightage @ 8%	509.36							
	Total	6876.36							
12	Providing & removing centering shuttering,strutting, propping etc., and removal of form work for sides & soffits of beams, beam haunchings, cantilever girders, bresumers and **lintels** not exceeding 1m in depth including cost of all materials, labour complete as per specifications.								
	S.R Page no 16, item no 4.34								
		1	1.30		0.60	0.78			
		4	1.80		0.60	4.32			
		2	1.30		0.60	1.56			
						6.66	Sqmt	**276.48**	**1841.36**
	Basic Rate:	256.00							
	Area Weightage @ 8%	20.48							
	Total	276.48							
13	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.5175cum and fine aggregtes @ 0.345cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain **chajja of 7.5 cms**. average thickness, upto ground floor level, including cost of all materials, labour,HOM of machinery, finishing, curing, complete as per specifications								
	S.R Page no 14, item no 4.19								
	RCC Chajja								
	front side	1	10.00	0.60		6.00			
	rear side	1	10.00	0.60		6.00			
						12.00	smt	**492.48**	**5909.76**
	Basic Rate:	456.00							
	Area Weightage @ 8%	36.48							
	Total	492.48							
14	Providing and removing centering, shuttering, strutting, propping etc., for **chajjas,** corbels etc., including edges including cost of all materials, labour complete as per specificaiton.								
	S.R Page no 16, item no 4.37								
	front chajja	1	10.00	0.60		6.00			
	rear chajja	1	10.00	0.60		6.00			
						12.00	Sqmt	**291.60**	**3499.20**
	Basic Rate:	270.00							
	Area Weightage @ 8%	21.60							
	Total	291.60							
15	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.**TMT Bars Fe 500**								
	S.R.page 17 item 4.46.2								
a	**For Slab**					5.69	cumt		
	1.00%					0.06			
	7850 kg/cmt					446.53	kgs		
						0.45	M T		

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
b	**For Lintels**					0.52	cumt		
	0.015					0.01			
	7850 kg/cmt					116.46	kgs		
						0.12	M T		
c	**chajja**					12.00	Sqmt		
	at 1%					0.12			
	@ 7850 kg/cmt					942.00	kg		
						0.94	M T		
						1.50	M T	**65455.56**	**98509.82**
	Basic Rate:	60607.00							
	Area Weightage @ 8%	4848.56							
	Total	65455.56							
16	Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to **ceiling** including rounding off corners wherever required smooth rendering,, Providing and removing scaffolding, including cost of materials, labour, lead, lift, curing complete as per specifications and direction of the Engineer in charge Providing Lime rendering for Plastering to **Ceiling** including cost of materials, labour, curing complete as per specification.								
	S.R Page no 114, item no 15.22 and S.R page 115 item 15.33								
	Bedroom	1	2.95	3.06		9.03			
	Hall	1	3.30	3.06		10.10			
	Kitchen	1	2.10	1.70		3.57			
	Toilet	1	3.00	1.35		4.05			
	open space	1	0.75	1.70		1.28			
						28.02	Sqmt	**219.24**	**6143.10**
	Basic Rate:	203.00							
	Area Weightage @ 8%	16.24							
	Total	219.24							
17	Providing 18mm thick cement plaster in single coat with **cement mortar 1:4,** to brick masonry including rounding off corners wherver required smooth rendering, : Providing **lime rendering** for plastering to wall and ceiling and Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications, direction of the Engineer in charge.for **Inside Plastering**								
	S.R.page114 item No.15.16 and S.R.page 115 item 15.33								
a	bed room								
		2	3.00		2.95	17.70			
		2	3.00		2.95	17.70			
b	kitchen								
		2	2.10		2.95	12.39			
		2	1.60		2.95	9.44			
		1	0.75		2.95	2.21			
c	toilet								
		2	3.00		2.95	17.70			
		2	1.35		2.95	7.97			
						85.11			
	Deductions								
	room								
	window	1	1.50		1.00	1.50			
	door	1	1.00		2.10	2.10			
	hall								
	window	2	1.50		1.00	3.00			
	door	1	1.00		2.10	2.10			
	open space	1	1.70		2.95	5.02			
	kitchen								
	window	1	1.50		1.00	1.50			

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	entry	1	0.80		2.95	2.36			
	toilet								
	ventilator	1	0.75		0.45	0.34			
	door	1	1.00		2.10	2.10			
						20.01			
	total					**65.10**	smt	**265.68**	**17294.44**
	Basic Rate:	246.00							
	Area Weightage @ 8%	19.68							
	Total	265.68							
18	Providing 18mm thick cement plaster in single coat with **cement mortar 1:4,** to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge.for **Outside Plastering**								
	S.R Page no 114, item no 15.16								
a	**wall**								
	Long wall	2	9.92		2.95	58.53			
	Short Wall	2	3.46		2.95	20.41			
						78.94			
	Terrace								
	Long wall	2	9.92		0.90	17.86			
	Short Wall	2	3.46		0.90	6.23			
						24.08			
	deductions								
	door	1	1.00		2.10	2.10			
	windows	4	1.50		1.00	6.00			
	ventilator	1	0.75		0.45	0.34			
						8.44			
b	**chajja**								
	front	2	10.00		0.60	12.00			
	rear	2	6.00		0.60	7.20			
	side	2	2.00		0.60	2.40			
						21.60			
						116.19	smt	**238.68**	**27731.87**
	Total								
	Basic Rate:	221.00							
	Area Weightage @ 8%	17.68							
	Total	238.68							
19	Providing **Sal wood frames** of **doors, windows**, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications								
	S.R.page 51 Item No.9.13								
	Doors								
	vertical post	4	0.10	0.13	2.10	0.11			
	horizontal post	2	0.10	0.13	1.30	0.03			
						0.14	Cumt	**69034.68**	**9582.01**
	Basic Rate:	63921.00							
	Area Weightage @ 8%	5113.68							
	Total	69034.68							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
20	Providing and fixing factory made splendoor of solid core single leaf rigid composite polymer laminated sal wood, door shutter of required thickness, manufactured out of solid core door conforming to IS 2202 (Part-1) 1991, laminated with 0.8 mm thick polymer, termite, water resistant and fire retardant with superior gluing based on vacuum lamination technology and with various pre moulded design on both faces conforming to IS 6307-1985, using adhesive conforming to IS 4835-1979 and door shuters tested in conformation to IS 4020-1994. The finish of shutters will be TEADK/OAK/CEDAR/ROSE WOOD/ WALNUT, plain colurs WHITE/IVORY/BEIGE/LIGHT GREY. Excluding cost of fixtures and inclusive of supply of shutters to respective work spot. **with door shutter 35mm thick**								
	S.R.page 59 item 9.90.2								
	main door and bedroom door	2	1.00		2.10	4.20			
						4.20	Sqmt	**3942.00**	**16556.40**
	Basic Rate:	3650.00							
	Area Weightage @ 8%	292.00							
	Total	3942.00							
21	Providing and fixing PVC Hollow Door Frame of the size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet, mitre cut at two corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. Square tube. The two vertical door profiles are to be reinforced with 19x19 mm M.S. Square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door screws through the frame by using PVC fasteners. A minimum of 4 Nos of screws to be provided for each vertical member & minimum 2 Nos. for horizontal member.								
	S.R.page 59 I,.No.9.92								
	door	2			2.10	4.20			
		1			1.30	1.30			
						5.50	m	**421.20**	**2316.60**
	Basic Rate:	390.00							
	Area Weightage @ 8%	31.20							
	Total	421.20							
22	**PVC DOOR SHUTTER :** Supply and fixing of door shuttersmade of rigid PVC extruded hollow section of 20mm x 200mm with the wall thickness of 1.0mm + /0.1mm equally divided into 4nos with tongue and groove locking arrangements. The shutter frame is made of 58x24 mm with the wall thickness of 1.5mm+/-0.15mm section metricut and joined at 4 corners with 125mmx225mm plastic brackets. The shutter shall be horizontally reinforced with 2nos of 8mm PVC rods. Teak wood battons shall be reinforced inside the door shutter during the fabrication of the door shutter at those points wherever the hardware is fixed on to the door shutter.								
	S.R.page 58 I,.No.9.86								
		1	1.00		2.10	2.10			
						2.10	Sqm	**1900.80**	**3991.68**
	Basic Rate:	1760.00							
	Area Weightage @ 8%	140.80							
	Total	1900.80							
23	**Fixing of door frame** in an existing opening including embeeding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour charges, complete as per specifications.								
	S.R.page 57 Item,.No.9.80								
	doors	2				2.00			
						2.00	Nos	**1138.32**	**2276.64**

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Basic Rate:	1054.00							
	Area Weightage @ 8%	84.32							
	Total	1138.32							
24	Providing and fixing in position aluminium windows and **ventilators** as per approved drawings with sliding shutters using threetrack window frame of size 92x31.75mm bottom section 1.3mm thick,weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933kg/m.shutter frame section comprising top and bottom section of size40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter sideouter 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutterinterlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved qualityof fixtures such as aluminium handles tower bolts etc.; providing andfixing 5.5mm. thick plain glass for shutters fitted with rubber beading allaluminium sections including cutting to required length, joints mitredsubdividing the frame tenonned and rivetted, in the assembled frame,stiffened with end clips for corners, angles etc., and fixed to the walls,lintels, floor beams/cills as the case may be, with necessary steelscrews, raul plugs or teak wood gatties including cutting masonry orconcrete and making good the original surface using cement mortar.(using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder o fapproved quality.)								
	S.R.page 33 item 7.11.2								
	ventilators	1	0.60	0.45		0.27			
	Windows	4	1.00	1.50		6.00			
						6.27	**Sqmt**	**4515.48**	**28312.06**
	Basic Rate:	4181.00							
	Area Weightage @ 8%	334.48							
	Total	4515.48							
25	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.								
	S.R.page No.32 Item 7.9								
		4	1.00	1.50		6.00			
		1	0.75	0.45		0.34			
						6.34	Sqmt		
	6.34 Sqmt x 21 Kgs Per sqmt =133.09Kgs					**133.09**	Kgs	**84.24**	**11211.29**
	Basic Rate:	78.00							
	Area Weightage @ 8%	6.24							
	Total	84.24							
26	Providing and fixing **Vitrified glazed tiles**. of approved make, quality and colour of size 600x600x10mm thick fixed on bed of 12 thick cement mortar for flooring, skirting and jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc., complete as per specifications.								
	S.R Page no 107, item no 14.45								
	Bed room	1	3.00	3.00		9.00			
	Hall	1	3.30	3.00		9.90			
	Kitchen	1	2.15	1.58		3.40			
						22.30	Sqmt	**1200.96**	**26777.81**
	Basic Rate:	1112.00							
	Area Weightage @ 8%	88.96							
	Total	1200.96							
27	Providing and fixing **Skirting** of 300mm high using prepolished water cut/gang saw of 19mm thick grey granite 0.5mm wide chamfered width and depth and fixing in CM 1:4 of 20mm thick after chipping the walls etc., complete.								
	S.R.page 108 item 14.50								

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Vitrified Tiles	1				35.10			
						35.10	m	753.84	26459.78
	Basic Rate:	698.00							
	Area Weightage @ 8%	55.84							
	Total	753.84							
28	Providing Ceramic tiles/Antiskid tiles of size 30x30cms of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications.								
	S.R.page 105 item 14.36.2								
	Toilet	1	3.00	1.35		4.05			
						4.05	Sqmt	1270.08	5143.82
	Basic Rate:	1176.00							
	Area Weightage @ 8%	94.08							
	Total	1270.08							
29	Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications.Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms								
	S.R.page 106 item 14.41.2								
	Toilet	2	3.00		1.95	11.70			
		2	1.50		1.95	5.85			
	Kitchen	1	2.15		1.50	3.23			
		1	1.70		1.50	2.55			
						23.33			
	Deductions								
	D2	1	1.00		1.95	1.95			
	Total					21.38	sqmt	1802.72	38552.14
	Basic Rate:	1484.00							
	Area Weightage @ 8%	118.72							
	Total	1602.72							
30	Providing and laying platform using prepolished, water cut / gang saw 40mm thick, telephonic Black Granite, laid on existing vertical - supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in joints including curing.								
	S.R.page 108 item 14.52								
	Kitchen	1	2.30	0.60		1.38			
						1.38	Sqmt	3903.12	5386.3
	Basic Rate:	3614.00							
	Area Weightage @ 8%	289.12							
	Total	3903.12							
31	Providing half nosing for 40mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification								
	S.R.page 108 I,.No.14.54								
		1	2.30			2.30			
						2.30	Mtr	342.36	787.43
	Basic Rate:	317.00							
	Area Weightage @ 8%	25.36							
	Total	342.36							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
32	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers including cost of all materials cost oif labour and scaffolding etc complete as per the specifications								
	S.R.page 126 item 15.106					93.12	Sqmt	60.48	5631.60
	Ceiling+Internal								
	Basic Rate:	56.00							
	Area Weightage @ 8%	4.48							
	Total	60.48							
33	Providing and applying painting in two coats with plastic Emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications and as per the directions of the Engineer in charge. (with Primer)								
	S.R.page 117 item15.51.2					93.12			
	Internal Walls+Ceiling					93.12	Sqmt	97.20	9050.78
	Basic Rate:	90.00							
	Area Weightage @ 8%	7.20							
	Total	97.20							
34	Providing and finishing external walls in two coats over one coat of 100% acrylic silicon glazed primer with antifungal paint for top coat of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.								
	S.R.page124 item 15.104					116.19			
	External walls					116.19	Sqmt	163.08	18948.02
	Basic Rate:	151.00							
	Area Weightage @ 8%	12.08							
	Total	163.08							
35	Applying priming coat over new wood surface and/ or wood based surface after preparing the surface after throughlycleaning oil, grease, dirt and foreign matter, sand papering and knotting liquid wood filler, for varnish including cost of materials, labour, completeas per specifications.								
	S.R.page 119 item 15.59								
	D	2	1.00		2.10	4.20			
						4.20	sqmt	44.28	185.98
	Basic Rate:	41.00							
	Area Weightage @ 8%	3.28							
	Total	44.28							
36	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood basedsurface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost ofmaterials, labour, complete as per specifications.								
	S.R.page 119 item 15.60.1								
	D	2	1.00		2.10	4.20			
						4.20	Sqmt	90.72	381.02
	Basic Rate:	84.00							
	Area Weightage @ 8%	6.72							
	Total	90.72							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
37	Providing and applying enamel metal paint two coats(excluding priming coat) over new steel or other metal surfacebrushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.								
	S.R.page 121 item 15.74								
	W	4	1.50		1.00	6.00			
		1	0.75		0.45	0.34			
						6.34			
		6.34	2.00			**12.68**	sqmt	**88.56**	**1122.50**
	Basic Rate:	82.00							
	Area Weightage @ 8%	6.56							
	Total	88.56							
38	Miscellaneous								
a	Providing and fixing of Door locking arrangements(page XIV,item no 397)								
		2				2.00	Each	**650.00**	**1300.00**
b	Providing and fixing of Handles powder coated 150mm(page XIV,item No,393)								
		6				6.00	Each	**60.00**	**360.00**
c	Providing and fixing of Hinges 5" heavy duty(Page No.XIV,item No395)								
		8				6.00	Each	**37.00**	**222.00**
d	Providing and fixing of Hold fasts MS (Page No XIV, item No 396)								
		8				8.00	Each	**38.00**	**304.00**
e	Providing and fixing of Tower bolt 300mm long(page No,XIV, item No 412)								
		4				4.00	Each	**120.00**	**480.00**
							M.R		
39	Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls andslabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications.								
	S.R.page 66 item 10.2								
	Toilet	1	3.00	1.50		4.50			
	Roof	1	9.60	3.10		29.76			
						34.26	Sqmt	**976.32**	**33448.72**
	Basic Rate:	904.00							
	Area Weightage @ 8%	72.32							
	Total	976.32							
40	Providing and fixing to wall, ceiling and floor **high density polyethylene pipes 6.00 kgf/sq.cm** working pressure 32mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications **110mm**								
	S.R.page 94 item 13.73.5								

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
		3	3.15			9.45			
						9.45	Mtr	616.68	5827.63
	Basic Rate:	571.00							
	Area Weightage @ 8%	45.68							
	Total	616.68							
41	Drainage Spouts complete as per drawing and Technical specification complete as per specifications								
	S.R.page239 item 32.5								
		3				3.00			
						3.00	No	1776.60	5329.80
	Basic Rate:	1645.00							
	Area Weightage @ 8%	131.60							
	Total	1776.60							
42	Providing Shoe for Rain water pipes 4"								
	S.R.page NO.XXXVII								
		3				3.00			
						3.00	No	319.00	957.00
								TOTAL	788444.21
									4555.79
43	Miscelleneous								
						GRAND TOTAL			793000.00

(RUPEES SEVEN LAKHS NINETY THREE THOUSAND ONLY)

CERTIFICATES

1) The work spot has been inspected and found to be necessary
2) This estimate is prepared as per KPWD SR. of 2016-17 & Approved Rates
3) The provisions were made in this estimate are necessary and adequate.
4) This works come under B.B.M.P. limits.
5) The work is not Spilt Up.

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

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BRUHAT BANGALORE MAHANAGARA PAILKE

DEVELOPMENT OF BURIAL GROUND AT WARD NO. 172_13 MALLASANDRA, 'G' CATEGORY

TOILETS

BASED ON SR 2016-2017

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
1	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.								
	S.R Page no 5, item no 2.3								
	Toilet	2	12.00	1.00	1.00	24.00			
		4	5.40	1.00	1.00	21.60			
	Ladies Toilet	1	3.70	0.60	0.60	1.33			
		3	1.20	0.60	0.60	1.30			
		2	1.50	0.60	0.60	1.08			
	Gents Toilet	1	3.70	0.60	0.60	1.33			
		2	1.20	0.60	0.60	0.86			
		2	1.50	0.60	0.60	1.08			
						52.58	Cumt	204.12	10733.45
	Basic Rate	189.00							
	Area Weightage @ 8%	15.12							
	Total	204.12							
2	Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And lift upto 1.5m including cost of all labour (inside platrform , sides and sides of the area)								
	S.R.page 6 item 2.10								
	50% on qty vide S.No.1					26.29	Cumt	137.16	3606.21
	Basic Rate	127.00							
	Area Weightage @ 8%	10.16							
	Total	137.16							
3	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregate @ 0.892cum and fine aggregates @ 0.465cum machine mixed, machinemixed, concrete laid in layers not exceeding 15 cms, thick well compacted in foundation and plinth, cost of all materials, labour HOM of machinery, curing complete as per specifications.								
	S.R Page no 12, item no 4.2								
	For Foundation								
		4	12.00	1.00	0.10	4.80			
		4	5.40	1.00	0.10	2.16			
		1	3.70	0.60	0.10	0.22			
		3	1.20	0.60	0.10	0.22			
		2	1.50	0.60	0.10	0.18			
		1	3.70	0.60	0.10	0.22			
		2	1.20	0.60	0.10	0.14			
		2	1.50	0.60	0.10	0.18			
	For Flooring								
	Wash area	1	4.77	3.77	0.10	1.80			
	Gents Toilet	1	4.60	3.70	0.10	1.70			
	WC	2	1.20	1.50	0.10	0.36			
	Womens Toilet	1	4.60	3.70	0.10	1.70			
	WC	3	1.20	1.50	0.10	0.54			
						14.23	Cumt	5449.68	77528.73
	Basic Rate	5046.00							
	Area Weightage @ 8%	403.68							
	Total	5449.68							
4	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.								
	SR Page 23 item 5.9								

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
		4	12.00	0.90	0.45	19.44			
		4	12.00	0.60	0.45	12.96			
		4	12.00	0.45	0.45	9.72			
		1	5.40	0.60	0.45	1.46			
		1	5.40	0.45	0.45	1.09			
		1	3.70	0.60	0.45	1.00			
		1	3.70	0.45	0.45	0.75			
		3	1.20	0.60	0.45	0.97			
		3	1.20	0.45	0.45	0.73			
		2	1.50	0.60	0.45	0.81			
		2	1.50	0.45	0.45	0.61			
		1	3.70	0.60	0.45	1.00			
		1	3.70	0.45	0.45	0.75			
		2	1.20	0.60	0.45	0.65			
		2	1.20	0.45	0.45	0.49			
		2	1.50	0.60	0.45	0.81			
		2	1.50	0.45	0.45	0.61			
						53.84	Cumt	**5405.40**	**291015.93**
	Basic Rate:	5005.00							
	Area Weightage @ 8%	400.40							
	Total	5405.40							
5	Providing and constructing load bearing wall with concrete solid blocks having block ebsity not less than 1800 kg/m3 Having aq minimum average compressive strength of 5.00 N.mm2 confirming to IA 2185 (Part q) 2005 and constructed with CM 1:4 as [er IS 2572:2005 including cost of all materials labour charges, scaffolding. curing hire charges of machineries etc as per specifications **Solid concrete blocks of Size 400x200x200 mm**								
	S.R Page no 25, item no 5.27.1								
	Toilet	2	8.00	3.00		48.00			
		3	5.40	3.00		48.60			
	Wash	1	4.77	3.00		14.31			
		1	3.77	3.00		11.31			
						122.22			
	Deduction								
	D1	2	1.00	2.10		4.20			
	V1	2	0.90	0.60		1.08			
	V2	5	0.60	0.60		1.80			
	Lintel	2	1.60	0.20		0.64			
		2	2.60	0.20		1.04			
						8.76			
						113.46	Sqmt	**1011.96**	**114816.98**
	Basic Rate:	937.00							
	Area Weightage @ 8%	74.96							
	Total	1011.96							
6	Providing and constructing non-load bearing wall with solid concrete blocks of size **400x100x200mm** having a block density not less than 1800kg/m3 having a minimumm average compressive strength of 4.00 N/mm2 confirming to I.S : 2185(Part 1):2005 and constructed withCM 1:4 as per 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc complete as per specifications.								
	S.R Page no 25, item no 5.28								
	Ladies Toilet	2	1.50	2.25		6.75			
		1	3.70	2.25		8.33			
		3	1.20	2.25		8.10			
		1	1.30	2.25		2.93			
	Gents Toilet	1	0.90	2.25		2.03			
		2	1.20	2.25		5.40			
		2	1.50	2.25		6.75			
	Terrace Floor								
		2	13.20	1.00		26.40			
		2	6.60	1.00		13.20			
						79.88			
	Deductions								
	D2	5	0.75	2.10		7.88			
	Lintel	5	0.90	0.15		0.68			
						8.55			
						71.33	Sqmt	**773.28**	**55154.20**
	Basic Rate:	716.00							
	Area Weightage @ 8%	57.28							
	Total	773.28							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
7	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregares of ready mixef concrete for RCC works laid in 15 cms thick layers and well compated including vibrating, curing,etc., with all lead and lifts etc complete(excluisive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M-25								
	S.R.page 18 item 4.49/4.49.2								
	RCC Roof Slab								
	Toilet	1	13.20	6.60	0.13	10.89			
						10.89	**Cumt**	**6550.20**	**71331.68**
	Basic Rate:	6065.00							
	Area Weightage @ 8%	485.20							
	Total	6550.20							
8	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								
	S.R.page 12 item 4.5								
		4	12.00	0.45	0.15	3.24			
		1	5.40	0.30	0.15	0.24			
		2	1.20	0.30	0.15	0.11			
		1	1.50	0.30	0.15	0.07			
		2	1.50	0.30	0.15	0.14			
		2	1.20	0.30	0.15	0.11			
						3.90	**Cumt**	**5985.36**	**23351.88**
	Basic Rate:	5542.00							
	Area Weightage @ 8%	443.36							
	Total	5985.36							
9	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications (0-10 mts)								
	S.R.page 15 Item No. 4.29.2								
	RCC Roof Slab								
	Toilet	1	13.20	6.60		87.12			
						87.12	Sqmt	**788.40**	**68685.41**
	Basic Rate:	730.00							
	Area Weightage @ 8%	58.40							
	Total	788.40							
10	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, **lintles,** retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.								
	S.R Page no 13, item no 4.12								
		5	0.90	0.10	0.15	0.07			
		2	1.20	0.20	0.15	0.07			
						0.14	Cumt	**6876.36**	**959.25**
	Basic Rate:	6367.00							
	Area Weightage @ 8%	509.36							
	Total	6876.36							
11	Providing & removing centering shuttering,strutting, propping etc., and removal of form work for sides & soffits of beams, beam haunchings, cantilever girders, bresumers and **lintels** not exceeding 1m in depth including cost of all materials, labour complete as per specifications.								
	S.R Page no 16, item no 4.34								
		5	0.90		0.15	0.68			
		2	1.20		0.15	0.36			
						1.04	Sqmt	**276.48**	**286.16**
	Basic Rate:	256.00							
	Area Weightage @ 8%	20.48							
	Total	276.48							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
12	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.5175cum and fine aggregtes @ 0.345cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain **chajja of 7.5 cms**. average thickness, upto ground floor level, including cost of all materials, labour,HOM of machinery, finishing, curing, complete as per specifications								
	S.R Page no 14, item no 4.19								
	RCC Chajja								
		2	2.30	0.60		2.76			
		2	0.90	0.60		1.08			
		3	0.60	0.60		1.08			
						4.92	Sqmt	**492.48**	**2423.00**
	Basic Rate:	456.00							
	Area Weightage @ 8%	36.48							
	Total	492.48							
13	Providing and removing centering, shuttering, strutting, propping etc., for **chajjas,** corbels etc., including edges including cost of all materials, labour complete as per specificaiton.								
	S.R Page no 16, item no 4.37								
		2	2.30	0.60		2.76			
		2	0.90	0.60		1.08			
		3	0.60	0.60		1.08			
						4.92	Sqmt	**291.60**	**1434.67**
	Basic Rate:	270.00							
	Area Weightage @ 8%	21.60							
	Total	291.60							
14	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.**TMT Bars Fe 500**								
	S.R.page 19 item 4.46.2								
a	For Slab					10.89	cumt		
	1.00%					0.11			
	7850 kg/cmt					854.87	kgs		
						0.85	MT		
b	For Lintels					0.14	cumt		
	0.015					0.00			
	7850 kg/cmt					16.43	kgs		
						0.02	MT		
c	chajja					4.92	Sqmt		
						0.14			
	at 1%					0.00			
	@ 7850 kg/cmt					10.93	kg		
						0.01	MT		
						0.88			
					OR	**0.12**			
					SAY	**1.00**	MT	**65455.56**	**65601.26**
	Basic Rate:	60607.00							
	Area Weightage @ 8%	4848.56							
	Total	65455.56							
15	Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to **ceiling** including rounding off corners wherever required smooth rendering,, Providing and removing scaffolding, including cost of materials, labour, lead, lift, curing complete as per specifications and direction of the Engineer in charge Providing Lime rendering for Plastering to Ceiling including cost of materials, labour, curing complete as per specification.								
	S.R Page no 113, item no 15.22/15.33								
	Toilet	1	4.77	3.77		17.98			
	Gents Toilet	1	4.60	3.70		17.02			
	Womens Toilet	1	4.60	3.70		17.02			
						52.02	Sqmt	219.24	11405.50
	Basic Rate:	203.00							
	Area Weightage @ 8%	16.24							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Total	219.24							
16	Providing 18mm thick cement plaster in single coat with **cement mortar 1:4,** to brick masonry including rounding off corners wherver required smooth rendering, : Providing **lime rendering** for plastering to wall and ceiling and Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications, direction of the Engineer in charge.for **Inside Plastering**								
	S.R.page114 item No.15.16 and S.R.page 115 item 15.33								
	Wash area	2	4.77	3.00		28.62			
		1	3.77	3.00		11.31			
	Gents Toilet	2	4.60	3.00		27.60			
		2	3.60	3.00		21.60			
	WC	4	1.20	2.25		10.80			
		4	1.50	2.25		13.50			
		2	0.90	2.25		4.05			
	Womens Toilet	2	4.60	3.00		27.60			
		2	3.70	3.00		22.20			
	WC	2	3.70	2.25		16.65			
		4	1.50	2.25		13.50			
		2	1.30	2.25		5.85			
						203.28			
	Deductions								
		2	1.00	2.10		4.20			
	V1	5	0.75	2.10		7.88			
	V2	2	0.90	0.60		1.08			
		5	0.60	0.60		1.80			
						14.96			
						188.33	**Sqmt**	**265.68**	**50034.19**
	Basic Rate:	246.00							
	Area Weightage @ 8%	19.68							
	Total	265.68							
17	Providing 18mm thick cement plaster in single coat with **cement mortar 1:4,** to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge.for **Outside Plastering**								
	S.R Page no 113, item no 15.16								
	Toilet	2	12.00	3.15		75.60			
		2	5.40	3.15		34.02			
	Terrace	2	13.20	1.00		26.40			
		2	6.60	1.00		13.20			
						149.22	Sqmt	**238.68**	**35615.83**
	Basic Rate:	221.00							
	Area Weightage @ 8%	17.68							
	Total	238.68							
18	Providing **Sal wood frames** of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications								
	S.R.page 51 Item No.9.13								
		5	0.10	0.13	1.15	0.07			
						0.07	Cum	**69034.68**	**4961.87**
	Basic Rate:	63921.00							
	Area Weightage @ 8%	5113.68							
	Total	69034.68							
19	Providing and fixing PVC Hollow Door Frame of the size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet, mitre cut at two corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. Square tube. The two vertical door profiles are to be reinforced with 19x19 mm M.S. Square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door screws through the frame by using PVC fasteners. A minimum of 4 Nos of screws to be provided for each vertical member & minimum 2 Nos. for horizontal member.								
	S.R.page 59 I,.No.9.92								
	D2	10		2.10		21.00			
		10		0.75		7.50			

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Basic Rate:					28.50	m	421.20	12004.20
	Area Weightage @ 8%	390.00							
	Total	31.20							
		421.20							
20	**PVC DOOR SHUTTER** : Supply and fixing of door shuttersmade of rigid PVC extruded hollow section of 20mm x 200mm with the wall thickness of 1.0mm + /0.1mm equally divided into 4nos with tongue and groove locking arrangements. The shutter frame is made of 58x24 mm with the wall thickness of 1.5mm+/- 0.15mm section metricut and joined at 4 corners with 125mmx225mm plastic brackets. The shutter shall be horizontally reinforced with 2nos of 8mm PVC rods. Teak wood battons shall be reinforced inside the door shutter during the fabrication of the door shutter at those points wherever the hardware is fixed on to the door shutter.								
	S.R.page 58 I,.No.9.86								
		5	0.75	2.10		7.88			
						7.88	Sqm	1900.80	14968.80
	Basic Rate:	1760.00							
	Area Weightage @ 8%	140.80							
	Total	1900.80							
21	**Fixing of door frame** in an existing opening including embeeding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour charges, complete as per specifications.								
	S.R.page 57 Item,.No.9.80								
	D1	2				2.00			
						2.00	Nos	1138.32	2276.64
	Basic Rate:	1054.00							
	Area Weightage @ 8%	84.32							
	Total	1138.32							
22	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using threetrack window frame of size 92x31.75mm bottom section 1.3mm thick,weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933kg/m.shutter frame section comprising top and bottom section of size40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter sideouter 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutterinterlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved qualityof fixtures such as aluminium handles tower bolts etc.; providing andfixing 5.5mm. thick plain glass for shutters fitted with rubber beading allaluminium sections including cutting to required length, joints mitredsubdividing the frame tenonned and rivetted, in the assembled frame,stiffened with end clips for corners, angles etc., and fixed to the walls,lintels, floor beams/cills as the case may be, with necessary steelscrews, raul plugs or teak wood gatties including cutting masonry orconcrete and making good the original surface using cement mortar.(using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder o fapproved quality.)								
	S.R.page 33 item 7.11.2								
	V1	2	0.90	0.60		1.08			
	V2	5	0.60	0.60		1.80			
						2.88	Sqmt	4515.48	13004.58
	Basic Rate:	4181.00							
	Area Weightage @ 8%	334.48							
	Total	4515.48							
23	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.								
	S.R.page No.32 Item 7.9								
	V1	2	0.90	0.60		1.08			
	V2	1	0.60	0.60		0.36			
						1.44	Sqmt		
	1.44Sqmt x 21 Kgs Per sqmt =30.24 Kgs					30.24	Kgs	84.24	2547.42
	Basic Rate:	78.00							
	Area Weightage @ 8%	6.24							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Total	84.24							
24	Providing **Ceramic tiles/Antiskid tiles** of size 30x30cms of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications.								
	S.R.page 106 item 14.36.2								
	Wash area	1	4.77	3.77		17.98			
	Gents Toilet	1	4.60	3.70		17.02			
		1	0.90	2.25		2.03			
	WC	2	1.20	1.50		3.60			
	Womens Toilet	1	3.70	3.00		11.10			
	WC	3	1.20	1.50		5.40			
						57.13	**Sqmt**	**1270.08**	**72557.00**
	Basic Rate:	1176.00							
	Area Weightage @ 8%	94.08							
	Total	1270.08							
25	Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications.**Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms**								
	S.R.page 106 item 14.41.2								
	Wash area	1	4.77	1.50		7.16			
	Gents Toilet	1	3.00	2.10		6.30			
	WC	4	1.20	2.10		10.08			
		4	1.50	2.10		12.60			
	Womens Toilet	1	3.00	2.10		6.30			
	WC	6	1.20	2.10		15.12			
		6	1.50	2.10		18.90			
	Wash Basin	1	3.00	1.50		4.50			
						80.96			
	Deductions								
	D2	5	0.75	2.10		7.88			
						73.08	Sqmt	**1602.72**	**117126.78**
	Basic Rate:	1484.00							
	Area Weightage @ 8%	118.72							
	Total	1602.72							
26	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers including cost of all materials cost oif labour and scaffolding etc complete as per the specifications								
	S.R.page 126 Item 15.106								
	Ceiling+Internal					**240.35**	Sqmt	**60.48**	**14536.24**
	Basic Rate:	56.00							
	Area Weightage @ 8%	4.48							
	Total	60.48							
27	Providing and applying painting in two coats with plastic Emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications and as per the directions of the Engineer in charge. (with Primer)								
	S.R.page 117 item15.51.2								
	Internal Walls+Ceiling					240.35			
						240.35	Sqmt	97.20	23361.82
	Basic Rate:	90.00							
	Area Weightage @ 8%	7.20							
	Total	97.20							
28	Providing and finishing external walls in two coats over one coat of 100% acrylic silicon glazed primer with antifungal paint for top coat of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.								
	S.R.page124 Item 15.104								
	External walls					149.22			

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
						149.22	Sqmt	163.08	24334.80
	Basic Rate:	151.00							
	Area Weightage @ 8%	12.08							
	Total	163.08							
29	Providing and applying enamel metal paint two coats(excluding priming coat) over new steel or other metal surfacebrushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as perspecifications.								
	S.R.page 121 item 15.74								
	V1	2	0.90	0.60		1.08			
	V2	5	0.60	0.60		1.80			
						2.88			
		2.88	2.25			6.48	Sqmt	88.56	573.87
	Basic Rate:	82.00							
	Area Weightage @ 8%	6.56							
	Total	88.56							
30	Miscellaneous								
a	Providing and fixing of Door locking arrangements(page XIV,item no 397)								
		2				2.00	Each	650.00	1300.00
b	Providing and fixing of Handles powder coated 150mm(page XIV,item No,393)								
		6				6.00	Each	60.00	360.00
c	Providing and fixing of Hinges 5" heavy duty(Page No.XIV,item No395)								
		6				6.00	Each	37.00	222.00
d	Providing and fixing of Hold fasts MS (Page No XIV, item No 396)								
		8				8.00	Each	38.00	304.00
e	Providing and fixing of Tower bolt 300mm long(page No,XIV, item No 412)								
		4				4.00	Each	120.00	480.00
							M.R		
31	Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls andslabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications.								
	S.R.page 66 item 10.2								
	Toilet	1	13.20	6.60		87.12			
						87.12	Sqmt	976.32	85057.00
	Basic Rate:	904.00							
	Area Weightage @ 8%	72.32							
	Total	976.32							
32	Providing and fixing to wall, ceiling and floor **high density polyethylene pipes 6.00 kgf/sq.cm** working pressure 32mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications **110mm**								
	S.R.page 94 item 13.73.5								
		2	2.00			4.00			
						4.00	Mtr	616.68	2466.72
	Basic Rate:	571.00							
	Area Weightage @ 8%	45.68							
	Total	616.68							
33	Drainage Spouts complete as per drawing and Technical specification complete as per specifications								
	S.R.page246 item 32.5								

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
		2				2.00			
						2.00	No	1776.60	3553.20
	Basic Rate	1645.00							
	Area Weightage @ 8%	131.60							
	Total	1776.60							
34	Providing Shoe for Rain water pipes 4"								
	S.R.page NO.XXXVII								
		2				2.00			
						2.00	No	319.00	638.00
								TOTAL	1280619.25
									9380.75
35	Miscellaneous								
						GRAND TOTAL			1290000.00

CERTIFICATES

1) The work spot has been inspected and found to be necessary
2) This estimate is prepared as per KPWD SR. of 2016-17 & Approved Rates
3) The provisions were made in this estimate are necessary and adequate.
4) This works come under B.B.M.P. limits.
5) This work is not Spilt Up.

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Pal

ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಯೋಜನಾ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬಿಬಿಎಂಪಿ.

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BRUHAT BANGALORE MAHANAGARA PAILKE

DEVELOPMENT OF BURIAL GROUND AT WARD NO. 173_13 MALLASANDRA, 'C' CATEGORY

GATE & ENTRANCE ARCH

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
1	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **ordinary soil** not exceeding 1.5m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.								
	S.R Page no 5, item no 2.3								
	For Gate Pillar	2	2.00	2.00	2.00	16.00			
						16.00	Cumt	204.12	3265.92
	Basic Rate:	189.00							
	Area Weightage @ 8%	15.12							
	Total	204.12							
2	Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And lift upto 1.5m including cost of all labour (inside platrform , sides and sides of the area)								
	S.R page 6 item 2.10								
	50% on qty vide S.No.1								
	Basic Rate:	127.00				**8.00**	Cumt	137.16	1097.28
	Area Weightage @ 8%	10.16							
	Total	137.16							
3	Providing and laying in position plain cement concrete of mix **1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregate @ 0.892cum and fine aggregates @ 0.465cum machine mixed, machinemixed, concrete laid in layers not exceeding 15 cms. thick well compacted in foundation and plinth, cost of all materials, labour HOM of machinery, curing complete as per specifications.								
	S.R Page no 12, item no 4.2								
	For Foundation								
	For Gate Pillar	2	2.00	2.00	0.10	0.80			
						0.80	Cumt	5449.68	4359.74
	Basic Rate:	5046.00							
	Area Weightage @ 8%	403.68							
	Total	5449.68							
4	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,**plinth and cills,** including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								
	SR Page 12 iteam 4.5								
	Plinth	2	2.00	0.30	0.45	0.54			
						0.54	Cumt	5985.36	3232.09
	Basic Rate:	5542.00							
	Area Weightage @ 8%	443.36							
	Total	5985.36							

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N	DESCRIPTION OF WORKS	No	L	B	D	QTY	UNIT	RATE	AMOUNT
	Providing and laying in position cement concrete of design mix M25 with OPC cement 20								
	mmdia, well down size graded granite metal coarse aggregates and fine aggregates								
	@ 0.47cum, with superplasticizer @1% confirming to IS9103 (1999 Reaffirmed 2008), machine mixed								
	concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings,								
	pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, columns,								
	piers, abutments, pillars, posts, struts, buttresses, string or facing courses, parapets, coping, bed								
	blocks, anchor blocks & plinths etc., including cost of all materials, labour, Hire of machinery, curing,								
	complete but excluding cost of reinforcement as per specifications								
	S.R page 13 item 4.18								
a	Footing	2	1.80	1.80	0.30	1.94			
		2	1.30	1.30	0.30	1.38			
						3.32			
b	Columns	2	0.40	0.40	4.30	1.38			
						4.67	Cumt	6716.68	31376.24
	Basic Rate:	6331.00							
	Area Weightage @ 6%	497.68							
	Total	6716.68							
6	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for								
	foundations, Footings, bases of columns for mass concrete including cost of all materials, labour								
	complete as per specifications and direction of the Engineer in charge.								
	S.R page 13 item 4.28								
	footing	2	7.20		0.30	4.32			
		2	6.00		0.30	3.60			
						7.92	Sqmt	249.48	1976.56
	Basic Rate:	231.00							
	Area Weightage @ 8%	18.48							
	Total	249.48							
7	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers,								
	abutments, post and struts, square / rectangular / polygon in plan including cost of materials, labour								
	complete as per specification and directions of the Engineer in charge.								
	S.R page 13 item 4.32	2	1.60		4.30	13.76			
						13.76	Sqmt	395.28	5439.65
	Basic Rate:	366.00							
	Area Weightage @ 8%	29.28							
	Total	395.28							
8	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine								
	aggregares of ready mixef concrete for RCC works laid in 15 cms thick layers and well compated								
	including vibrating, curing,etc., with all lead and lifts etc complete(exclusive of cost of steel and								
	fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M-25								
	S.R page 18 item 4.49/4.49.2								
	Roof Beam								
	for Entrance Arch	1	5.60	0.40	0.40	0.90			
						0.90	Cumt	6550.20	5868.98
	Basic Rate	6065.00							
	Area Weightage @ 8%	485.20							
	Total	6550.20							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
9	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of **beams**, beam haunchings, cantilever girders, bressumers and lintles exceeding 1 m in depth incluidng cost of all materials, labour complete as per specifications.								
	SR Page 16 iteam 4.34								
	for Entrance Arch	1	5.60	1.20		6.72			
						6.72	Sqmt	**276.48**	**1857.95**
	Basic Rate:	256.00							
	Area Weightage @ 8%	20.48							
	Total	276.48							
10	Providing and removing centering, shuttering, strutting,npropping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons, **For Plinth Bed**								
	SR Page 15 iteam 4.31								
		2	1.50		0.45	1.35			
						1.35	Sqmt	**316.44**	**427.19**
	Basic Rate:	293.00							
	Area Weightage @ 8%	23.44							
	Total	316.44							
11	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.**TMT Bars Fe 500**								
	S.R.page 19 item 4.46.2								
a	For footing					3.29	cumt		
	1.5%					0.05			
	7850 kg/cmt					387.87	kgs		
						0.39	MT		
d	For column					1.38	cumt		
	2.0%					0.03			
	7850 kg/cmt					216.03	kgs		
						0.22	MT		
c	For Beam					0.90	Cumt		
	2.0%					0.02			
	7850 kg/cmt					140.67	kgs		
						0.14	MT		
						0.74			
						0.18			
					SAY	**0.92**	MT	**68050.80**	**62917.90**
	Basic Rate:	63010.00							
	Area Weightage @ 8%	5040.80							
	Total	68050.80							
12	Providing 18mm thick cement plaster in single coat with **cement mortar 1:4,** to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge.for **External Plastering**								
	S.R Page no 113, item no 15.16								
	For Gate Pillar	2	1.60		3.00	9.60			
						9.60	Sqmt	**238.68**	**2291.33**
	Basic Rate:	221.00							
	Area Weightage @ 8%	17.68							
	Total	238.68							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
13	Fabricating, providing and erecting in poiston of **M S Ornamental security Grill Gate** without hot dip using 75 x 12mm M S Flat for alround frame work with verticals at the centre and horizontal centere support M S Square of 20 x20 mm of different heights as shown in the drawing are to be fixed at 16 cms C/C for suqare bars of full height and at 8cms C / C for bottom rods providg ornamental C I Designers at the botom and C I arrows inthe midle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necesary drillling holes. the work includes providng two coats of enamel painting over one coatr of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist pulleycranes with all lead and lift, loading, transporting and unloading using hoist pulley cranes, scaffolding charges and all other incidental charges required for successful completion fo the work as per specification and drawings								
	S.R.page 41 item 7.31								
		1	4.00	2.50		10.00			
	Size of gate(4x2.5=10x75 Kgs)					750.00	Kgs	136.08	102060.00
	Basic Rate:	126.00							
	Area Weightage @ 8%	10.08							
	Total	136.08							
								TOTAL	226169.55
14	Miscelleneous								830.45
							GRAND TOTAL		227000.00

(RUPEES TWO LAKHS TWENTY SEVEN THOUSAND ONLY)

CERTIFICATES

1) The work spot has been inspected and found to be necessary
2) This estimate is prepared as per KPWD SR. of 2016-17 & Approved Rates
3) The provisions were made in this estimate are necessary and adequate.
4) This works come under B.B.M.P. limits.
5) The work is not Spilt Up.

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯೋಜನಾ ವಿಭಾಗ
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BRUHAT BANGALORE MAHANAGARA PAILKE

DEVELOPMENT OF BURIAL GROUND AT WARD NO. 172_13 MALLASANDRA, 'C' CATEGORY

Ritual Platform

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
1	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **ordinary soil** not exceeding 1.5m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.								
	S.R Page no 5, item no 2.3								
	Circular columns	5	0.79		1.20	4.71			
						4.71	Cumt	**204.12**	**961.41**
	Basic Rate:	189.00							
	Area Weightage @ 8%	15.12							
	Total	204.12							
2	Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And lift upto 1.5m including cost of all labour (Inside platrform , sides and sides of the area)								
	S.R.page 6 Item 2.10								
	50% on qty vide S.No.1								
						2.36	Cumt	**137.16**	**323.01**
	Basic Rate:	127.00							
	Area Weightage @ 8%	10.16							
	Total	137.16							
3	Providing and laying in position plain cement concrete of mix **1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregate @ 0.892cum and fine aggregates @ 0.465cum machine mixed, machinemixed, concrete laid in layers not exceeding 15 cms, thick well compacted in foundation and plinth, cost of all materials, labour HOM of machinery, curing complete as per specifications.								
	S.R Page no 12, item no 4.2								
	For Foundation								
		5	0.79		0.10	0.39			
	For Flooring								
		1	4.05	4.01	0.10	1.62			
						2.02	Cumt	**5449.68**	**10989.55**
	Basic Rate:	5046.00							
	Area Weightage @ 8%	403.68							
	Total	5449.68							
4	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for **footings, pedastals, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks,& Plinths etc.**, including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per spoecifications								
	S.R.page 13 item 4.10								
A	**Footing**								
		5	0.79		0.30	1.18			
						1.18			
B	**Columns**								
	Upto Ground level	5	0.07		0.90	0.32			

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Above Ground Level								
		3	0.07		3.00	0.63			
		2	0.07		2.60	0.36			
						1.31			
						2.49	Cumt	6718.68	16706.00
	Basic Rate:	6221.00							
	Area Weightage @ 8%	497.68							
	Total	6718.68							
5	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, **Footings,** bases of columns for mass concrete including cost of all materials, labour complete as per specifications and direction of the Engineer in charge. **S.R.page 15 Item 4.28**								
		5	3.14		0.30	4.71			
						4.71	Sqmt	249.48	1175.05
	Basic Rate:	231.00							
	Area Weightage @ 8%	18.48							
	Total	249.48							
6	Providing and removing Centering, shuttering, strutting, propping etc., for **columns,** pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge. **S.R.page 15 item 4.32**								
	Round Columns	5	0.94		0.90	4.23			
		3	0.94		3.00	8.46			
		2	0.94		2.60	4.89			
						17.58	Sqmt	395.28	6948.23
	Basic Rate:	366.00							
	Area Weightage @ 8%	29.28							
	Total	395.28							
7	Providing and constructing load bearing wall with concrete solid blocks having block density not less than 1800 kg/m3 Having aq minimum average compressive strength of 5.00 N.mm2 confirming to IA 2185 (Part q) 2005 and constructed with CM 1:4 (as per IS 2572:2005 including cost of all materials labour charges, scaffolding. curing hire charges of machineries etc as per specifications **Solid concrete blocks of Size 400x200x200 mm** **S.R Page no 25, item no 5.27.1**								
	For platform	2	1.00		1.00	2.00			
						2.00	Sqmt	1011.96	2023.92
	Basic Rate:	937.00							
	Area Weightage @ 8%	74.96							
	Total	1011.96							
8	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.**TMT Bars Fe 500** S.R.page 19 item 4.46.2								
A	For footing					1.18	cumt		
	1.5%					0.02			
	7850 kg/cmt					138.65	kgs		
						0.14	MT		
B	For column					1.31	cumt		
	2.0%					0.03			
	7850 kg/cmt					205.51	kgs		
						0.21	MT		
						0.34			
						0.21			
					SAY	0.55	MT	68050.80	60534.00
	Basic Rate:	63010.00							
	Area Weightage @ 8%	5040.80							
	Total	68050.80							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
9	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.								
	S.R.page114 item No.15.19								
		3	0.94	3.00		8.46			
		2	0.94	2.60		4.89			
						13.35	**Sqmt**	**252.72**	**3373.31**
	Basic Rate:	234.00							
	Area Weightage @ 8%	18.72							
	Total	252.72							
10	Providing 18mm thick cement plaster in single coat with **cement mortar 1:4,** to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge.for **External Plastering**								
	S.R Page no 113, item no 15.16								
		2	1.00	1.00		2.00			
						2.00	Sqmt	**238.68**	**477.36**
	Basic Rate:	221.00							
	Area Weightage @ 8%	17.68							
	Total	238.68							
11	Providing and laying flooring 40 mm thick, with an under layer of 30mm thick M-15 cement concrete, using broken granite metal of 12.5mm nominal size and top layer of 10mm thick plaster with cement mortar 1:3, finished with floating coat of neat cement , including cost of materials, labour, curing, complete as per specifications.								
	S.R Page no 102, item no 14.10								
		1	4.05	4.01		16.24			
						16.24	Sqmt	**558.36**	**9068.05**
	Basic Rate:	517.00							
	Area Weightage @ 8%	41.36							
	Total	558.36							
12	Fabrication supplying and erecting M.S. tubular trusses of all spans with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant. Welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design gauge and polish. The entire trusses is anchored in RCC column by using 4 nos of M.S. anchor bolts at each support with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, letc., complete as per specification								
	S.R.page 40 Item No.7.29								
		1	5.52	15.00		82.80			
						82.80			
	82.80Sqmt x 33 Kgs					**2732.40**	Kgs	**118.80**	**324609.12**
	Basic Rate:	110.00							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Area Weightage @ 8%	8.80							
	Total	118.80							
13	Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.								
	S.R.page 291 Item No.38.30								
		1	5.52	15.00		82.80			
						82.80	Sqm	**831.60**	**68856.48**
	Basic Rate:	770.00							
	Area Weightage @ 8%	61.60							
	Total	831.60							
14	Providing and laying **platform using prepolished, water cut / gang saw** 40mm thick telephonic Black Granite. laid on existing vertical - supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in joints including curing.								
	S.R.page 108 item 14.52								
		1	2.00	1.00		2.00			
						2.00	Sqmt	**3903.12**	**7806.24**
	Basic Rate:	3614.00							
	Area Weightage @ 8%	289.12							
	Total	3903.12							
15	Providing half nosing for 20mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification								
	S.R.page 108 I,.No.14.56								
		2	2.00			4.00			
		2	1.00			2.00			
						6.00	**Mtr**	**170.64**	**1023.84**
	Basic Rate:	158.00							
	Area Weightage @ 8%	12.64							
	Total	170.64							
							TOTAL		**514875.56**
	Miscellaneous								**1124.44**
							GRAND TOTAL		**516000.00**

(RUPEES FIVE LAKHS SIXTEEN THOUSAND ONLY)

CERTIFICATES

1) The work spot has been inspected and found to be necessary
2) This estimate is prepared as per KPWD SR. of 2016-17 & Approved Rates
3) The provisions were made in this estimate are necessary and adequate.
4) This works come under B.B.M.P. limits.
5) The work is not Spilt Up.

Asst. Executive Engineer
Project S... ...sion-I

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BRUHAT BANGALORE MAHANAGARA PAILKE

DEVELOPMENT OF BURIAL GROUND AT WARD NO. 172_13 MALLASANDRA, 'C' CATEGORY

PATHWAY

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
1	Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications.								
	S.R Page no 5, item no 2.1								
	For Pathway								
		1	13.20	2.00	0.20	5.28			
		1	21.20	2.00	0.20	8.48			
		1	12.00	2.00	0.20	4.80			
		1	15.25	2.00	0.20	6.10			
		1	7.95	2.00	0.20	3.18			
	For Kerb								
		1	13.20	0.30	0.30	1.19			
		1	21.20	0.30	0.30	1.91			
		1	12.00	0.30	0.30	1.08			
		1	15.25	0.30	0.30	1.37			
		1	7.95	0.30	0.30	0.72			
						34.10	Cumt	**169.56**	**5782.67**
	Basic Rate:	157.00							
	Area Weightage @ 8%	12.56							
	Total	169.56							
2	Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								
	S.R Page no 12, item no 4.6								
		1	13.20	0.30	0.15	0.59			
		1	21.20	0.30	0.15	0.95			
		1	12.00	0.30	0.15	0.54			
		1	15.25	0.30	0.15	0.69			
		1	7.95	0.30	0.15	0.36			
						3.13	Cumt	**5876.28**	**18404.51**
	Basic Rate:	5441.00							
	Area Weightage @ 8%	435.28							
	Total	5876.28							
3	Providing, laying, spreading and compacting stone aggregates of specific sizes to **water bound macadam** specifications including spreading in uniform thickness, hand packing, rolling with 3-wheeled steel/vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/binding materials to fill up the interstices of coarse aggregates, watering and compacting to the required density complete as per Specification								
	13.2mm for grading II								
	SR Page 157 iteam 20.14.1								
	For Pathway								
		1	13.20	2.00	0.15	3.96			
		1	21.20	2.00	0.15	6.36			
		1	12.00	2.00	0.15	3.60			
		1	15.25	2.00	0.15	4.58			
		1	7.95	2.00	0.15	2.39			
						20.88	Cumt	**1912.68**	**39936.76**
	Basic Rate:	1771.00							
	Area Weightage @ 8%	141.68							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Total	1912.68							
4	Providing, laying, spreading and compacting stone aggregates of specific sizes to **water bound macadam** specifications including spreading in uniform thickness, hand packing, rolling with 3-wheeled steel/vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/binding materials to fill up the interstices of coarse aggregates, watering and compacting to the required density complete as per Specification **Crushable type such as Moorum or Gravel for grading II**								
	SR Page 157 iteam 20.14.2								
	Quantity vide 1/3 of Item No.3					6.96			
						6.96	**Cumt**	**1769.04**	**12312.52**
	Basic Rate:	1638.00							
	Area Weightage @ 8%	131.04							
	Total	1769.04							
5	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications.								
	S.R.page 101 Item 14.6								
	For Pathway								
		1	13.20	2.00		26.40			
		1	21.20	2.00		42.40			
		1	12.00	2.00		24.00			
		1	15.25	2.00		30.50			
		1	7.95	2.00		15.90			
						139.20	**Sqmt**	**984.96**	**137106.43**
	Basic Rate:	912.00							
	Area Weightage @ 8%	72.96							
	Total	984.96							
6	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete.-do- of size 450 x 150 x 500 mm								
	S.R.page 40 Item No.5.29.2								
	Parking	2	13.20			26.40			
		2	21.20			42.40			
		2	12.00			24.00			
		2	15.25			30.50			
		2	7.95			15.90			
						139.20			
					Say	**309.00**	Nos	**381.24**	**117803.16**
	139.20/ 0.45 = 309.33								
	Basic Rate:	353.00							
	Area Weightage @ 8%	28.24							
	Total	381.24							
7	Conveying the excavated earth by private vehicle and disposing of the same including loading and un loading with a lead of 2 to 3 kmtr.								
	Quantity Vide item No.1 - 50%					**17.05**	Cum	**143.64**	**2449.35**
	Add: Bulking Charge @ 1.3%								
	Loading and unloading I.No.17.1			68.00					
	for Haulage(surface road Rs.2.5 T/Km)								
	(density of debris 1.30 t/cum)								
	for 20kms =20x2.5x1.30			65.00					
				133.00					
			A W @ 8%	10.64					
			Total	143.64					

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
8	Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And lift upto 1.5m including cost of all labour (Inside platrform , sides and sides of the area)								
	S.R.page 6 Item 2.10								
	50% on qty vide S.No.1					17.05	Cumt	137.16	2338.85
	Basic Rate:	127.00							
	Area Weightage @ 8%	10.16							
	Total	137.16							
9	Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.								
	S.R.page 122 Item No.15.81								
		309.00	0.45		0.30	41.72			
						41.72	smt	**71.28**	**2973.45**
	Basic Rate:	66.00							
	Area Weightage @ 8%	5.28							
	Total	71.28							
								TOTAL	**339107.70**
									892.30
	Miscelleneous								
							GRAND TOTAL		**340000.00**

CERTIFICATES

1) The work spot has been inspected and found to be necessary
2) This estimate is prepared as per KPWD SR. of 2016-17 & Approved Rates
3) The provisions were made in this estimate are necessary and adequate.
4) This works come under B.B.M.P. limits.
5) The work is not Spilt Up.

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara P...

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BRUHAT BANGALORE MAHANAGARA PAILKE

DEVELOPMENT OF BURIAL GROUND AT WARD NO. 172_13 MALLASANDRA, 'C' CATEGORY

COMPOUND WALL

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
1	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **ordinary soil** not exceeding 1.5m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.								
	S.R Page no 5, item no 2.3								
	East side	1	50.92	1.00	1.00	50.92			
	West side	1	49.01	1.00	1.00	49.01			
	Northen side	1	7.90	1.00	1.00	7.90			
	South Side	1	30.07	1.00	1.00	30.07			
						137.90	Cumt	**204.12**	**28148.15**
	Basic Rate:	189.00							
	Area Weightage @ 8%	15.12							
	Total	204.12							
2	Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And lift upto 1.5m including cost of all labour (Inside platrform , sides and sides of the area)								
	S.R.page 6 Item 2.10					68.95			
	50% on qty vide S.No.1					**68.95**	Cumt	**137.16**	**9457.18**
	Basic Rate:	127.00							
	Area Weightage @ 8%	10.16							
	Total	137.16							
3	Providing and laying in position plain cement concrete of mix **1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregate @ 0.892cum and fine aggregates @ 0.465cum machine mixed, machinemixed, concrete laid in layers not exceeding 15 cms, thick well compacted in foundation and plinth, cost of all materials, labour HOM of machinery, curing complete as per specifications.								
	S.R Page no 12, item no 4.2								
	East side	1	50.92	1.00	0.10	5.09			
	West side	1	49.01	1.00	0.10	4.90			
	Northen side	1	7.90	1.00	0.10	0.79			
	South Side	1	30.07	1.00	0.10	3.01			
						13.79	Cumt	**5449.68**	**75151.09**
	Basic Rate:	5046.00							
	Area Weightage @ 8%	403.68							
	Total	5449.68							
4	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.								
	SR Page 23 iteam 5.9								
		1	50.92	0.90	0.30	13.75			
		1	50.92	0.60	0.45	13.75			
		1	50.92	0.45	0.45	10.31			
		1	49.01	0.90	0.30	13.23			
		1	49.01	0.60	0.45	13.23			
		1	49.01	0.45	0.45	9.92			
		1	7.90	0.90	0.30	2.13			

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
		1	7.90	0.60	0.45	2.13			
		1	7.90	0.45	0.45	1.60			
		1	30.07	0.90	0.30	8.12			
		1	30.07	0.60	0.45	8.12			
		1	30.07	0.45	0.45	6.09			
						102.39	Cumt	**5405.40**	**553462.96**
	Basic Rate:	5005.00							
	Area Weightage @ 8%	400.40							
	Total	5405.40							
5	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,**plinth and cills,** including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								
	SR Page 12 iteam 4.5								
	East side	1	50.92	0.45	0.15	3.44			
	West side	1	49.01	0.45	0.15	3.31			
	Northen side	1	7.90	0.45	0.15	0.53			
	South Side	1	30.07	0.45	0.15	2.03			
						9.31	**Cumt**	**5985.36**	**55713.23**
	Basic Rate:	5542.00							
	Area Weightage @ 8%	443.36							
	Total	5985.36							
6	Providing and constructing load bearing wall with concrete solid blocks having block ebsity not less than 1800 kg/m3 Having aq minimum average compressive strength of 5.00 N.mm2 confirming to IA 2185 (Part q) 2005 and constructed with CM 1:4 as [er IS 2572:2005 including cost of all materials labour charges, scaffolding. curing hire charges of machineries etc as per specifications **Solid concrete blocks of Size 400x200x200 mm**								
	S.R Page no 25, item no 5.27.1								
	East side	1	50.92		2.50	127.30			
	West side	1	49.01		2.50	122.53			
	Northen side	1	7.90		2.50	19.75			
	South Side	1	30.07		2.50	75.18			
	Piers	35	0.45		3.00	47.25			
						392.00	Sqmt	**1011.96**	**396688.32**
	Basic Rate:	937.00							
	Area Weightage @ 8%	74.96							
	Total	1011.96							
7	Providing and removing centering, shuttering, strutting,npropping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. **For Plinth Bed**								
	SR Page 15 iteam 4.31								
	East side	1	50.92		0.15	7.64			
	West side	1	49.01		0.15	7.35			
	Northen side	1	7.90		0.15	1.19			
	South Side	1	30.07		0.15	4.51			
						20.69	Sqmt	**316.44**	**6545.56**
	Basic Rate:	293.00							
	Area Weightage @ 8%	23.44							
	Total	316.44							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
8	Providing and fixing **M.S.Grill over existing compound wall** as per Chief Architect drawing No. 12686, using 16mm x 16mm M.S.Square rod at 150mm c/c spacing and 6mm x 40mm M.S. flats at horizontal and 6mm x12mm M.S. flat for ornamental design and providing shop edge design at the vertex of every vertical rods, including welding, grinding wherever necessary. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc. complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification.								
	S.R.page 42 item 7.36								
	East side	1	50.92		1.50	76.38			
	West side	1	49.01		1.50	73.52			
	Northen side	1	7.90		1.50	11.85			
	South Side	1	30.07		1.50	45.11			
						206.85	Sqmt	**5641.92**	**1167031.15**
	Basic Rate:	5224.00							
	Area Weightage @ 8%	417.92							
	Total	5641.92							
9	Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								
	S.R.page 12 item 4.6								
	East side	1	50.92	0.20	0.10	1.02			
	West side	1	49.01	0.20	0.10	0.98			
	Northen side	1	7.90	0.20	0.10	0.16			
	South Side	1	30.07	0.20	0.10	0.60			
	Pillar	35	0.45	0.20	0.10	0.32			
						3.07	Cumt	**5876.28**	**18057.81**
	Basic Rate:	5441.00							
	Area Weightage @ 8%	435.28							
	Total	5876.28							
10	Providing 18mm thick cement plaster in single coat with **cement mortar 1:4,** to brick masonry including rounding off corners wherver required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curing complete as per specifications and direction of the Engineer in charge.for **External Plastering**								
	S.R Page no 113, item no 15.16								
	East side	2	50.92		2.50	254.60			
	West side	2	49.01		2.50	245.05			
	Northen side	2	7.90		2.50	39.50			
	South Side	2	30.07		2.50	150.35			
	Pillar	70	0.45		3.00	94.50			
						784.00	Sqmt	**238.68**	**187125.12**
	Basic Rate:	221.00							
	Area Weightage @ 8%	17.68							
	Total	238.68							
11	Providing and finishing external walls in two coats over one coat of 100% acrylic silicon glazed primer with antifungal paint for top coat of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.								
	S.R.page124 Item 15.104								
	External walls					784.00			
						784.00	Sqmt	**163.08**	**127854.72**
	Basic Rate:	151.00							
	Area Weightage @ 8%	12.08							
	Total	163.08							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
12	Providing and applying enamel metal paint two coats(excluding priming coat) over new steel or other metal surfacebrushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as perspecifications.								
	S.R.page 121 item 15.74								
	East side	1	50.92		1.50	76.38			
	West side	1	49.01		1.50	73.52			
	Northen side	1	7.90		1.50	11.85			
	South Side	1	30.07		1.50	45.11			
						206.85			
			206.85	2.00		**413.70**	Sqmt	88.56	36637.27
	Basic Rate:	82.00							
	Area Weightage @ 8%	6.56							
	Total	88.56							
								TOTAL	2661872.56
	Miscelleneous								8127.44
							GRAND TOTAL		2670000.00

CERTIFICATES

1) The work spot has been inspected and found to be necessary
2) This estimate is prepared as per KPWD SR. of 2016-17 & Approved Rates
3) The provisions were made in this estimate are necessary and adequate.
4) This works come under B.B.M.P. limits.
5) The work is not Spilt Up.

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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BRUHAT BANGALORE MAHANAGARA PALIKE

DEVELOPMENT OF BURIAL GROUND AT WARD NO. 172_13 MALLASANDRA, 'C' CATEGORY

BOREWELL

Sl. No.	Description of Work	Unit	No.	Dimension L	Dimension B	Dimension D	Qty	Rate	Amount
	Drilling of Borewell								
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction **(P.30, I. 9.4) PRED.SR 2012-13**								
		Each BW	1				1	1900.00	1900.00
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) **29/I.1 PRED SR 2006-07 and as per corragandam SE PRED No. 9.1/2008-09**								
	0 to 50 m	Rmtr	1	50.00			50.00	306.00	15300.00
	50 to 100 m		1	50.00			50.00	400.00	20000.00
	100 to 150 m		1	50.00			50.00	445.00	22250.00
	150 to 200 m		1	50.00			50.00	470.00	23500.00
	200 to 250 m		1	50.00			50.00	544.00	27200.00
	250 to 300 m		1	50.00			50.00	583.00	29150.00
	300m to 350m		1	50.00			50.00	590.00	29500.00
	350m to 400 m		1	50.00			50.00	600.00	30000.00
3	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) **as per corragandam SE PRED No. 2/2008-09**								
		Rmtr	1	36.00			36.00	1325.00	47700.00
4	Providing 250mm dia PVC Pipe 6kg/cm as per specification and direction of the Engineer in Charge of the work								
		Rmtr	1	6.00			6.00	754.47	4527.00
5	Providing and fixing 175mm Borewell Cap								
		No.	1				1	150.00	150.00
6	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 10.00 HP 20 stage. **SE RDED Approved Rate**								
	12.5 HP 20 Stage	No	1				1	44000.00	44000.00

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7	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008. **50 mm dia including Collar Heavy Class**						200	415.00	83000.00
			1	200.00					
8	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 12 ,2.10.3, 4.0 **Sqm mm of 36 strands 0.3mm dia Group - A KPWD Electrical SR 2014-2015 (1x3x4.00 Sqmm PVC cable**						480.00	126.70	60816.00
		Mtr	2	200.00					
9	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) **(As per rate approved KUWS & DB for year 2008-09**						1	3000.00	3000.00
		No	1						
10	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., P No. 44,6.6.6, **KPWD Electrical SR 20014-15**						1	302.00	302.00
		No.	1						
11	Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.P No. 55/ I No.7.4.4, **4 core 16 Sqmm KPWD Electrical SR 2014-15**						30.00	140.40	4212.00
		Mtr	1	30.00					
12	Labour charges for laying of 1.1 K.V class UG cable **KPWD Electrical SR 2014-15**						30.00	10.80	324.00
		Mtr	1	30.00					
13	Digging or trenching of 0.6 m x 0.5 m wide refilling the trench to the required ground level and consolidating etc., complete as per Civil SR KSRB 1-2 P-7 P No. 68/ I. No. 12-d **KPWD Electrical SR 2014-15**						25.00	85.00	2125.00
	For Cutting Road Surface	Mtr	1	25.00					
14	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class P. No. 62/ I No.7.12.1, **KPWD Electrical SR 2014-15**						4.00	345.00	1380.00
	40mm dia GI pipe	Mtr	1	4.00					
15	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., P. No. 62/ I No. 7.13.2, **KPWD Electrical SR 2007-08**						1.00	280.00	280.00
		No.	1						
16	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, , P-55, I.No.7.1,**KPWD Electrical SR 2014-15**						1	2727.00	2727.00
		No	1						
17	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... P No. 45/I No 6.7.3 **KPWD Electrical SR 2014-15**						3	234.00	702.00
	63 Amps	No.	2						
18	Providing and fixing in position **50mm** nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13-7.1-4 P.No. 90/I No. 13.55 **PWD SR 2016-17**								

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		No	1				1	1615.68	1616.00
19	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No. 93/ I. No. 13.81.3 **PWD SR 2016-17**								
	50mm dia	No	1				1	232.20	232.00
20	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc coomplete								
		No	1	4.00			2	80.00	160.00
21	Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift -loading, unloading and labour charges etc complete as per specifications								
		No	1				1	138.00	138.00
22	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications								
		No	1				1	1547.00	1547.00
23	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.35 P.No. 40, I. No. 6.40.2, **KPWD Electrical SR 2014-15**								
		Sq.Cm	1	90.00		75.00	6750.00		
			2	23.00		75.00	3450.00		
			2	23.00	90.00		4140.00		
							14340.00	0.33	**4732.00**
24	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. **15HP to 30 HP Star Delta Starter SERDED Rate (P.No. 44, I. No. 6.2.3, KPWD Electrical SR 2014-15)**								
			1				1	14123.00	14123.00
25	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **hard soil** not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification, specification. No. KBS 2.1(b) / 2.3.5, **No. 5/ Item No. 2.4/ PWD SR 2016-17**								
		Cum	2	320.00	0.45	0.45	129.60		
	Basic Rate	283.00	2	200.00	0.45	0.45	81.00		
	Area Weightage @ 8%	22.64					**210.60**	305.64	**64368.00**
	Total	**305.64**							
26	Providing and instalation at site of works **P.V.C.Pipes** including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., Page No.15 item No.3.4.2(b) **PRE SR2012-13**								
	75mm Dia 6 KSC	Rmtr	1	320.00			320.00	117.00	37440.00
	65m Dia PRED SR P.No.14/3, 4.2		1	200.00			200.00	88.00	17600.00
27	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50mm, and lift upto 1.5m, including cost of all labour complete as per specifications, **No. 6/ Item No. 2.11/ PWD SR 2016-17**								

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		Cum				23.00	82.08	1888.00
	Basic Rate	76.00						
	Area Weightage @ 8%	6.08						
	Total	82.08						
28	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **50mm** nominal bore including cost of all materials, labour and HOM of equipment with all leads complete as per specifications. No. KBS 13.37 **PWD SR - 2016-17)**					2	2216.16	4432.00
		Each	2					
	Basic Rate	2052.00						
	Add Area Weightage @ 8%	164.16						
	Total	2216.16						
								602321.00
							US	2673.00
29	Miscellaneous and Unforeseen Charges					Grand Total		600000.00

(RUPEES SIX LAKHS FIVE THOUSAND ONLY)

CERTIFICATES

1) The work spot has been inspected and found to be necessary
2) This estimate is prepared as per KPWD SR. of 2016-2017 & Approved Rates
3) The provisions were made in this estimate are necessary and adequate.
4) This works come under B.B.M.P. limits.
5) The work is not Spilt Up.

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Pa

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PROJECT NAME:DEVELOPMENT OF BURIAL GROUND AT WRAD NO. 172-13 MALLASANDRA,
'C' CATEGORY(AS PER KPWD ELE SR 2014-2015)

S.NO	SR Page No	SR Iteam no	Description/Specification	unit	Basic Rate	QTY	TOTAL RATE
1	2	1.2	Concealed Conduit System Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary				
1a	2	1.2.1	19/20mm dia 2mm thick	Mtr	43	20	860
1b	2	1.2.2	25mm dia 2mm thick	Mtr	57	10	570
2	2	1.3	Supplying heavy gauge PVC Conduit Pipe ....dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever				
2a	2	1.3.1	19/20mm dia 2mm thick	Mtr	56	20	1120
2b	2	1.3.2	25mm dia 2mm thick	Mtr	58	20	1160
2c	2	1.3.3	32mm dia 2.5mm thick	Mtr	88	100	8800
3	3	1.8	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm .... etc. as required.				
3a	3	1.8.2	25mm	Mtr	26	5	130
4	3	1.9	Supplying PVC/GI flexible conduit pipe...mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and on either end of the pipe terminated completely				
4a	3	1.9.2	25mm	Mtr	30	5	150
5	3	1.12	Supplying And Fixing Metal Fan Box with Round Hook.	No	92	1	92
			TOTAL AMOUNT				12882
		2.00	WIRES & CABLES				
6	5	2.1	Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A				
6a	5	2.1.2	Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch	Point	245	15	3675
7	6	2.5	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.				
7a	6	2.5.2	1.5 sqmm	Mtr.	18.6	130	2418
7b	6	2.5.3	2.5 sqmm	Mtr.	29.2	260	7592
7c	6	2.5.5	6 sqmm	Mtr.	63.8	10	638
7d	6	2.5.6	10 sqmm	Mtr.	108	20	2160
			TOTAL AMOUNT				16483
		3.00	SWITCHES SOCKETS & ACCESSORIES				
8	15	3.5	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in				
8a	15	3.5.1	1-3Way	Each	91	7	637
8b	15	3.5.2	4-5Way	Each	98	1	98

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8c	16	3.5.5	10-12Way	Each	159	1	159
9	16	3.6	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.				
9a	16	3.6.1	1 to 3 Module	Each	109	7	763
9b	16	.6.2	4 Module	Each	122	1	122
9c	16	3.6.5	10 Module	Each	227	1	227
10	16	3.7.A	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A				
10a	16	3.7.A.1	6Amps one way.	Each	63	2	126
10b	16	3.7.A.3	6Amps 3way socket.	Each	95	2	190
10c	16	3.7.A.4	Stepped Fan Regulator.	Each	286	1	286
10d	16	3.7.A.8	6Amps Bell push	Each	87	1	87
11	17	3.12	Supplying 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slab.	No	6.8	100	680
			TOTAL AMOUNT				**3375**
		4.00	**LUMINAIRS/LIGHTS FIXTURES & ACCESSORIES**				
12	24	4.23	Supplying CFL mirror light fitting with 1x11W CFL lamp, choke, Perspex cover and completely wired for use on 230V 50Hz AC supply.	Each	648	2	1296
13	20	4.7	Supplying box type suitable for 28W T5 single / twin Lamp & suspension mounted luminaire & optical reflector. Prewired with HF electronic Ballast, push fit type lamp holders & main connectors. Channel cover shall be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic.				
13a	20	4.7.1	1x4'-28 Watts	Each	990	8	7920
14	25	4.3	LED Down light Supply of recess mounted rolling type LED Down light with 4/6W GU 10 LED Lamp Rib Fabricated from Die cast aluminum with white powder coated prewired to mains connector with suitable driver & having swiveling unit of aluminum die cast eye ball & LED Lamp position retained by circular wire spring. 5 years Warranty against any manufacturing defect working under standard electrical condition. LED square or round down light 5x1 watts	No	1428	4	5712
15	28	4.37	LED Flood Light. Supplying of LED Floodlight with .....W System Power consumption pressure die cast aluminum housing with powder coating with IP 65 protection. 1, 200-275V voltage with electronic Driver, PF>0.9, should meet ANSI 2G Vibration test, Compliance to UL/CE with Class I. System rating shall be 50K hrs. @ Lumen maintenance of 70%, system efficacy > 80lm/w. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical				
15a	28	4.37.3	LED Floodlight 110W	No	17593	16	281488
			TOTAL AMOUNT				**296416**
		5.00	**POLES & HIGH MAST**				

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16	34	5.13.1	Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including				
16a	34	5.13.1.1	9Mt (5Mt Hb,165.1mm dia 4.85mm thick x2M Hm, 139.7mm dia 4.50mm thick x 2M Ht,114.3mm dia 3.65mm thick) as per IS	Each	15000	8	120000
			TOTAL AMOUNT				**120000**
		6.00	**CONTROL SWITCH GEARS & ACCESSORIES**				
17	44	6.7	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.	Each	360	6	2160
17a	45	6.7.4	100Amps				
18	46	6.13.B	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE	Each	5809	1	5809
18a	46	6.13.B.6	100Amps 25kA.	Each	1486	3	4458
19	46	6.14	Supplying and fixing of Shunt trip suitable for MCCB.CBCT.	Each	7998	1	7998
20	47	6.19	Supplying, fixing and wiring earth leakage relay with core balanced current transformer suitable for single phase 50 Hz AC with latest microcontroller based, digital readout of percentage leakage current, programmable delay/auto/manual reset facility suitable to mount on DIN rail/ flush mounting on panel board.	Each	390	1	390
21	48	6.2	Supplying, fixing and wiring 0 to 600Volts 96x96mm AC Voltmeter on existing panel/wood board.	Each	452	1	452
22	48	6.23	Supplying, fixing and wiring 0 to 100amps Direct Reading AC analog type Ammeter	Each	172	1	172
23	48	6.25	Supplying, fixing and wiring rotary selector switch suitable for Ammeter.	Each	140	1	140
24	48	6.26	Supplying, fixing and wiring rotary selector switch suitable for Voltmeter.	Each	442	3	1326
25	48	6.36	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C.				
26	49	6.38	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete.	Mtr	2135	2	4270
26a	49	6.38.1	100Amps 4x30x6mm Aluminum Strips				
27	49	6.39	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.	Mtr	263	50	13150
27a	49	6.39.1	40x40x6mm				
28	49	6.4	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.	sq.cms	0.33	35000	11550
28a	49	6.40.2	16SWG				
29	47	6.16	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.				
29a	47	6.16.1	5-32Amps SP	Each	418	8	3344
29b	47	6.16.3	5-32 Amps DP	Each	849	3	2547
29c	47	6.16.4	40-63Amps DP	Each	1093	1	1093

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30	47	6.17.II	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.II - Double Door	Each	1299	1	1299
30a	47	6.17.II.5	8Way SP &N	Each	1622	1	1622
30b	47	6.17.II.6	12Way SP &N				
31	47	6.18	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker [ELMCB] 240/450V up to 300mA sensitivity on existing wood/panel board.	Each	2623	2	5246
31a	47	6.18.2	32-40 Amps 2 pole				**67026**
			TOTAL AMOUNT				
		7.00	**L.T.U.G CABLE**				
32	55	7.1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia	No	2727	2	5454
33	55	7.3.A	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. GI strip	Mtr	30	30	900
33a	55	7.3.A.1	25x3mm	Each	784	2	1568
33b	55	7.3.A.5	600x600x3mm GI Plate				
34	55	7.4	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.				
34a	56	7.4.6	3.5 core 35 sqmm	Mtr	204	150	30600
35	12	4.1,4.2	KSRB 4-1.6: providing and laying in position plain cement concrete of mix 1:2:4 using 40mm and down size graded granite metal,machine mixed,concrete laid in layears not exceeding 15cms.thick,well compacted,in foundation and plinth,including cost of all materials, labour home of machine curing as per specification.spec no KBS 4.1,4.2.Item 4.6,page 12	CUM	5084	2	10168
36	61	7.6	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A.				
36a	61	7.6.4	2 X 25 + 1 X 25 SQ.MM	Mtr	143	175	25025
3738		Bes SR	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR	Per Mtr	10.30	175	1802.5
39		Bes SR	Piercing connector suitable for 16 sqmm - 95 sqmm AB cable - steel light connection. Bescom SR of 2016=17, Page no 12 of 32, Serial no 53.15.	Each	160.00	32	5120
40		Bes SR	Suspension clamp assembly 16 to 70 sqmm bare messenger. Bescom SR of 2016-17, Page no 12 of 32, Sl no 53.23.	Each	190.00	8	1520
41		Bes SR	Universal Hook and Bolts and Nuts, Bescom SR of 2016-17, Page no 12 of 32, Sl no. 53.18.	Each	305.00	8	2440
42		Bes SR	Erection of Suspension Clamp - 25 to 95 sqmm bare messenger. Bescom SR of 2016-2017, Page No16 of 53, Sl No 46.6.	Each	115.00	8	920
43		Bes SR	Fixing of Universal Hook. Bescom SR of 2016-17, Page No 16 of 53, Sl no. 46.10.	Each	115.00	8	920
44		Bes SR	Installation of Insulation piercing connector for main to street light Main : 16-95sqmm, Tap : 1.5-10sqmm(EP95), Bescom SR of 2016-2017, Page No17of 53, Sl No 46.12.	Each	54.00	32	1728
45	61	7.8.A	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.				
45a	61	7.8.A.2	25 sqmm to 75 sqmm	Mtr	16.2	150	2430
46	61	7.9	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)				

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46a	62	7.9.1	In soil (ordinary)	r	78	135	10530
46b	62	7.9.4	Asphalt cutting	Mtr	117	25	2925
47	62	7.1	Providing and filling sand in excavated trench to cover already laid UG cable to a depth of 150mm all-round the cable.	Mtr	103	135	13905
48	62	7.14	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only)				
48a	62	7.14.3	32mm dia	Each	122	2	244
49	63	7.2	Supply and laying double walled corrugated (DWC) HDPE Pipe including all necessary connecting Sockets/Couplings/Tees/Bends/End-caps of same materials in existing trench as per IS 14930 part -II suitable for drawing underground cables.				
49a	63	7.20.2	50mm OD / 38mm ID	Mtr	151	20	3020
50	64	7.21	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.				
50a	64	7.21.4	6 sqmm	Each	6.25	8	50
50b	64	7.21.5	10 sqmm	Each	7.65	4	30.6
50c	64	7.21.8	35 sqmm Long Barrel	Each	35.72	8	285.76
			TOTAL AMOUNT				**121585.86**
		9.00	**FANS & AIR CONDITIONERS**				
51	78	9.3.1	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm)				
51a	78	9.3.1.2	Economy model	Each	1900	1	1900
52	78	9.2	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete.				
52a	78	9.2.1	12" Sweep (300mm)	Each	3654	2	7308
			TOTAL AMOUNT				**9208**
		17.00	**FIXING CHARGES**				
53	108	17.5	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Each	176	16	2816
54	108	17.7	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.				
54a	108	17.7.1	On wall / ceiling / Rafter / Girders	Each	98	12	1176
55	109	17.8	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring.	Each	139	1	139
56	109	17.11	Fixing one exhaust fan after making a suitable nitch in the wall and finishing with cement mortar and colouring to match the existing wall or brackets, with bolts and nuts and a 5 amps, ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire of approved make with wire mesh and wooden frame.	Each	680	2	1360
			TOTAL AMOUNT				**5491**
			BESCOM CHARGES	EACH	47533	1	**47533**
			GRAND TOTAL AMOUNT				**700,000**

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bengaluru Mahanagara Palike

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BRUHAT BANGALORE MAHANAGARA PAILKE

DEVELOPMENT OF BURIAL GROUND AT WARD NO. 172_13 MALLASANDRA, 'C' CATEGORY

PLUMBING WORKS (TOILET & SECURITY CABIN)
BASED ON SR-2016-2017

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
1	Providing and fixing on wall surface 4.0 kg / sq.cm H.D.P.E. rain down water pipes 110mm outer dia. approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specifications.								
	S.R Page no 47, item no .8.19								
		4	3.00			12.00			
						12.00	mt	613.44	7361.28
	Basic Rate:	568.00							
	Area Weightage @ 8%	45.44							
	Total	613.44							
2	Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(For 1000 litre capacity)								
	S.R.page 94 item 13.78								
		2				2.00			
						2.00	Nos	9144.36	18288.72
	Basic Rate:	8467.00							
	Area Weightage @ 8%	677.36							
	Total	9144.36							
3	Providing and fixing **white vitreous china clay, water closet Orissa pattern of size 580 x 440mm** with integral type footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification								
	S.R Page no 77, item no 12.2								
		9				9.00			
						9.00	Pan	4682.88	42145.92
	Basic Rate:	4336.00							
	Area Weightage @ 8%	346.88							
	Total	4682.88							
4	Providing and fixing **white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm** with 5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.								
	SR Page 78 iteam No. 12.7								
		5				5.00			
						5.00	Unit	3204.36	16021.80
	Basic Rate:	2967.00							
	Area Weightage @ 8%	237.36							
	Total	3204.36							
5	Providing and fixing **white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps** with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.								
	S.R Page no 80, item no 12.23								
		5				5.00			
						5.00	Unit	4196.88	20984.40
	Basic Rate:	3886.00							
	Area Weightage @ 8%	310.88							
	Total	4196.88							
6	Providing and fixing **453x357mm dia rectangular shape mirror with plastic moulded frame** of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications.								
	S.R Page no 82, item no 12.41								
	Lintel	3				3.00			

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
						3.00	Unit	1274.40	3823.20
	Basic Rate	1180.00							
	Area Weightage @ 8%	94.40							
	Total	1274.40							
7	Providing and fixing C.P. **brass towel rail 600 mm length, 20mm dia with C.P brackets**, fixed to wooden cleats with C.P. brass screws including cost of materials, labour complete as per specifications. **S.R.page 83 item no. 12.46**								
		3				3.00			
						3.00	Unit	766.80	2300.40
	Basic Rate	710.00							
	Area Weightage @ 8%	56.80							
	Total	766.80							
8	Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) 20mm pipes** conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) **S.R.page 96 item no. 13.86.2**								
		2	50.00			100.00			
						100.00	mt	226.80	22680.00
	Basic Rate	210.00							
	Area Weightage @ 8%	16.80							
	Total	226.80							
9	Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) 25mm pipes** conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) **S.R.page 96 item no. 13.86.3**								
	Toilet	2	45.00			90.00			
		1	15.00			15.00			
						105.00	mt	270.00	28350.00
	Basic Rate	250.00							
	Area Weightage @ 8%	20.00							
	Total	270.00							
10	Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) 32mm pipes** conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) **S.R.page 96 item no. 13.86.4**								
		2	30.00			60.00			
						60.00	mt	334.80	20088.00
	Basic Rate	310.00							
	Area Weightage @ 8%	24.80							
	Total	334.80							
11	Providing and fixing in position **brass ball valve** high or low pressure with plastic float of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. **S.R Page no 92, item no 13.41**								
		2				2.00			
						2.00	Each	442.80	885.60
	Basic Rate	410.00							
	Area Weightage @ 8%	32.80							
	Total	442.80							
12	Providing and fixing in position **brass stop cock** of approved quality **20mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. **S.R Page no 91, item no 13.27**								
		18				18.00			
						18.00	Each	172.80	3110.40
	Basic Rate	160.00							

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Area Weightage @ 8%	12.80							
	Total	172.80							
13	Providing and fixing in position **brass gate valve** with C.I wheel of approved quality (screwed end) **20mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.								
	S.R Page no 91, item no 13.33								
		3				3.00			
						3.00	Each	**441.72**	**1325.16**
	Basic Rate:	409.00							
	Area Weightage @ 8%	32.72							
	Total	441.72							
14	Providing stoneware gully trap 15cms x 10cms of approved quality and make fixing in M- 15 and plastering with CM 1:3 wherever necessary.(Rate includes cost of all materials, fixtures and lead).								
	S.R.page 88 item no. 12.112.2								
		8				8.00			
						8.00	Each	**291.60**	**2332.80**
	Basic Rate:	270.00							
	Area Weightage @ 8%	21.60							
	Total	291.60							
15	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia.								
	S.R Page no 88, item no 12.111								
		12				12.00			
						12.00	Each	**172.80**	**2073.60**
	Basic Rate:	160.00							
	Area Weightage @ 8%	12.80							
	Total	172.80							
16	Constructing **brick masonry inspection chamber 455x610mm, and 450mm depth**, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications.								
	S.R.page 73 item No.11.50								
		10				10.00			
						10.00	**Nos**	**7604.28**	**76042.80**
	Basic Rate:	7041.00							
	Area Weightage @ 8%	563.28							
	Total	7604.28							
17	Provicing and fixing of submersible single phase motoHP/3.7KW								

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	S.R Page no xxxxiv, SL.No.1								
						2.00			
		2				2.00	Sqmt	12600.00	25200.00
18	Providing and laying **reinforced cement concrete pipe 1200MM dia NP2** for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications.								
	S.R.page 253 & 254 Item No.34.7.8								
						12.00			
		3	4.00			12.00	mt	6635.52	79626.24
	Basic Rate:	6144.00							
	Area Weightage @ 8%	491.52							
	Total	6635.52							
19	Providing and **Filling in foundation with granite / trap broken metal 100mm**. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification.								
	S.R.page 6 Item No.2.15								
	For rain water harvesting pit	5	2.00	0.45	4.00	18.00			
		5	1.50	0.45	4.00	13.50			
						31.50	cum	2283.12	71918.28
	Basic Rate:	2114.00							
	Area Weightage @ 8%	169.12							
	Total	2283.12							
20	Providing and laying flooring and steps fine dressed **granite stone slabs 40 mm thick** on cement mortar bed 1:6, 25 mm thick, and pointed with cement mortar 1:3 over existing cement concrete bed , including cost of materials, labour, curing complete as per specifications.								
	S.R.page 101 Item No.14.4								
		1	2.50	0.60		1.50			
						1.50	Sqmt	3413.88	5120.82
	Basic Rate:	3161.00							
	Area Weightage @ 8%	252.88							
	Total	3413.88							
20	Providing and fixing in position **brass ball valve** high or low pressure with plastic float of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with al leads complete as per specifications.								
	S.R.page 92 Item No.13.41								
		12				12.00			
						12.00	Each	442.80	5313.60
	Basic Rate:	410.00							
	Area Weightage @ 8%	32.80							
	Total	442.80							
21	Providing and fixing to wall, ceiling and floor **high density polyethylene pipes 6.00 kgf/sq.cm** working pressure 32mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications **140mm**								
	S.R.page 94 item 13.73.5								
		3	100.00			300.00			
						300.00	Mtr	774.36	232308.00
	Basic Rate:	717.00							
	Area Weightage @ 8%	57.36							
	Total	774.36						TOTAL	687301.02
									12698.98
22	Miscelleneous								
								GRAND TOTAL	700000.00

CERTIFICATES

1) The work spot has been inspected and found to be necessary
2) This estimate is prepared as per KPWD SR. of 2016-17 & Approved Rates
3) The provisions were made in this estimate are necessary and adequate.
4) This works come under B.B.M.P. limits.
5) The work is not Spilt Up.

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (Project)
Project Division
Bruhat Bangalore Mahanagara Palike,
Dasarahalli Zone, Bangalore-73.

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